



AutoTech Decorative Flakes

AutoTech

Chemwatch: 42-4255 Version No: 9.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 10/03/2023 Print Date: 07/10/2024 S.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier	
Product name	AutoTech Decorative Flakes
Chemical Name	Not Applicable
Synonyms	41090210; 41090209; 41090502; 41090503 ;
Chemical formula	Not Applicable
Other means of identification	Not Available
	ubstance or mixture and uses advised against
Relevant identified uses	Use according to manufacturer's directions.
Details of the manufacturer or s	
Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3327 3004 +61 7 3327 3009
Fax	https://www.dymark.com.au
Website	info@dymark.com.au
Email	
Emergency telephone number	
Association / Organisation	Dy-Mark
Emergency telephone numbers	+61 7 3327 3099
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Chemwatch Hazard Ratings

	Min	Max	
Flammability	1		
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low 2 = Moderat
Reactivity	1		
Chronic	2		3 = High 4 = Extreme

Poisons Schedul	Not Applicable
Classification [1	(Respiratory Tract Inflation) Category 3, Germ Cell Mutagellicity Category 1B, Reproductive Toxicity Category 2
Legent	

Label elements

Hazard pictogram(s)





Signal word

Danger

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H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H340	May cause genetic defects.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
Precautionary statement(s) Preve	ntion	
P201	Obtain special instructions before use.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing dust/fumes.	
	Wash all exposed external body areas thoroughly after handling.	
P264 Precautionary statement(s) Respo	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Precautionary statement(s) Respo	onse IF exposed or concerned: Get medical advice/ attention.	
Precautionary statement(s) Respo P308+P313 P305+P351+P338	onse IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Precautionary statement(s) Respo P308+P313 P305+P351+P338 P312	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
Precautionary statement(s) Respo P308+P313 P305+P351+P338 P312 P337+P313	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If eye irritation persists: Get medical advice/attention.	
recautionary statement(s) Respo P308+P313 P305+P351+P338 P312 P337+P313 P302+P352	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water.	
Precautionary statement(s) Responses P308+P313 P305+P351+P338 P312 P337+P313 P302+P352 P304+P340	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
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Precautionary statement(s) Responsible Procautionary Statement(s) Responsible Procautionary Statement(s) Responsible Procaution Proceedings Proceedings Proceedings Procedure Procedure Proceedings Procedure	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Precautionary statement(s) Responses P308+P313 P305+P351+P338 P312 P337+P313 P302+P352 P304+P340 P332+P313	IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7727-43-7	65-85 12-	barium sulfate
9003-20-7	22 <15 2-	vinyl acetate homopolymer
13845-36-8	10 1-10	potassium tripolyphosphate
14807-96-6		Engineer Chalk
Not Available		pigment as
13463-67-7		titanium dioxide
1333-86-4	0.1	carbon black
	0-1	
Legend:	1. Classified by Chemwatch; 2. Classification d. Classification drawn from C&L * EU IOELVs avo	rawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. ailable

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 4 First aid measures

Description	of first	aid	measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Ingestion	If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

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Indication of any immediate medical attention and special treatment needed

for phosphate salts intoxication:

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.
- Treatment should take into consideration both anionic and cation portion of the molecule.
- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

Treat symptomatically

- After ingestion of barium acid salts, severe gastro-intestinal irritation followed by muscle twitching, progressive flaccid paralysis and severe hypokalaemia and hypertension, occurs.
- Respiratory failure, renal failure and occasional cardiac dysrhythmias may result from an acute ingestion.
- ▶ Use sodium sulfate as a cathartic. Add 5-10 gm of sodium sulfate to lavage solution or as fluid supplement to Ipecac syrup (the sulfate salt is not absorbed)
- Monitor cardiac rhythm and serum potassium closely to establish the trend over the first 24 hours. Large doses of potassium may be needed to correct the hypokalaemia.
 Administer generous amounts of fluid replacement but monitor the urine and serum for evidence of renal failure. [Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

reconstruction of the contract				
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result			
Advice for firefighters				
	▶ Alert Fire Brigade and tell them location and nature of hazard.			
	 Wear breathing apparatus plus protective gloves in the event of a fire. 			
	 Prevent, by any means available, spillage from entering drains or water courses. 			

Fire Fighting

- Use fire fighting procedures suitable for surrounding area.
- DO NOT approach containers suspected to be hot.
 Cool fire exposed containers with water spray from a protected location.
 - If safe to do so, remove containers from path of fire.
 - Equipment should be thoroughly decontaminated after use.
 - Solid which exhibits difficult combustion or is difficult to ignite.
 - Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.

 Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn
 - rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.
 - A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.
 - Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type.
 - Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.
 - Build-up of electrostatic charge may be prevented by bonding and grounding.
 - Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.
 - All movable parts coming in contact with this material should have a speed of less than 1-metre/sec.

Fire/Explosion Hazard

Combustion products include: carbon dioxide (CO2) phosphorus oxides (POx) sulfur oxides (SOx)

silicon dioxide (SiO2)

other pyrolysis products typical of burning organic material.

Decomposes at high temperatures to produce barium oxide. Barium oxide is strongly alkaline and, upon contact with water, is exothermic. When barium oxide reacts with oxygen to give a peroxide, there is a fire and explosion risk.

May emit poisonous fumes. May emit corrosive fumes.

HAZCHEM

Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

- Clean up waste regularly and abnormal spills immediately. Avoid breathing dust and contact with skin and eyes.
- Wear protective clothing, gloves, safety glasses and dust respirator.

- Use dry clean up procedures and avoid generating dust.
 Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosionproof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum cleaners should NOT be used on wet materials or surfaces.

 Dampen with water to prevent dusting before sweeping.
- Place in suitable containers for disposal.

Major Spills

Minor Spills

Moderate hazard.

• CAUTION: Advise personnel in area

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- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.
- Prevent, by any means available, spillage from entering drains or water courses.
- Recover product wherever possible.
- FIF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal
- ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise Emergency Services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.

 DO NOT allow material to contact humans, exposed food or food utensils.
- - Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or
- some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- Establish good housekeeping practices.
- Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
- Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be
 given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard
- 654, dust layers 1/32 in.(0.8 mm) thick can be sufficient to warrant immediate cleaning of the area. Do not use air hoses for cleaning.
- Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.
- Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition.
- Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national
- guidance.
 Do not empty directly into flammable solvents or in the presence of flammable vapors.
- The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags
- and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

Safe handling

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

Other information

For major quantities:

- Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams}.
- Finance Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container

- Glass container is suitable for laboratory quantities
- Polyethylene or polypropylene container

Avoid reaction with oxidising agents

Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with sulfuric acid (H2SO4)

Avoid mixing with alkali metals such as sodium, potassium and lithium















- Must not be stored together

0— May be stored together with specific preventions

+- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	barium sulfate	Barium sulphate	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	Engineer Chalk	Talc, (containing no asbestos fibres)	2.5 mg/m3 10	Not Available Not	Not Available Not	Not Available
Australia Exposure Standards	titanium dioxide	Titanium dioxide	mg/m3	Available Not	Available Not	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	carbon black	Carbon black	3 mg/m3	Available	Available	Not Available

Ingredient	Original IDLH	Revised IDLH
barium sulfate	Not Available	Not Available
vinyl acetate homopolymer	Not Available	Not Available
potassium tripolyphosphate	Not Available	Not Available
Engineer Chalk	1,000 mg/m3	Not Available
titanium dioxide	5,000 mg/m3	Not Available
carbon black	1,750 mg/m3	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating E E	Occupational Exposure Band Limit	
vinyl acetate homopolymer		≤ 0.01 mg/m³ ≤ 0.01 mg/m³	
potassium tripolyphosphate			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

to a range of exposure concentrations that are expected to protect worker health.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.

An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Appropriate engineering controls

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50- 100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100- 200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment









Eye and face protection

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of

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lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. Skin protection See Hand protection below The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced.
As defined in ASTM F-739-96 in any application, gloves are rated as: · Excellent when breakthrough time > 480 min · Good when breakthrough time > 20 min · Fair when breakthrough time < 20 min Hands/feet protection ·Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where the protection against undissolved, dry solids, where the protection against undissolved and the protection against undissolved as a protection against undissolved and the protection against the prabrasive particles are not present. polychloroprene nitrile rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride. Gloves should be examined for wear and/ or degradation constantly. See Other protection below Body protection Overalls. P.V.C apron. Barrier cream Other protection Skin cleansing cream.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

. Eye wash unit.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES up	A-AUS P2 -	-	A-PAPR-AUS / Class 1 P2
to 50 x ES up to	-	A-AUS / Class 1 P2	-
100 x ES		A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- · The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option)
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- ·Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

 Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions

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Information on basic physical and chemical properties

Appearance	Coloured flakes.		
Physical state	Solid	Relative density (Water = 1)	2.745
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Not normally a hazard due to non-volatile nature of product
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Inorganic polyphosphates are used extensively in domestic and industrial products. Experiments on rats showed kidney damage, growth retardation, and tetany due to low calcium. Ingestion of soluble barium compounds may result in ulceration of the mucous membranes of the gastrointestinal tract, tightness in the muscles of the face and neck, gastroenteritis, vomiting, diarrhoea, muscular tremors and paralysis, anxiety, weakness, laboured breathing, cardiac irregularity due to contractions of smooth striated and cardiac muscles (often violent and painful), slow irregular pulse, hypertension, convulsions and respiratory failure. Sulfates are not well absorbed orally, but can cause diarrhoea. The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal
Skin Contact	models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient
Eye	discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational
Chronic	exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. In long-term animal studies, inorganic polyphosphates produced growth inhibition, increased kidney weights, bone decalcification, enlargement of the parathyroid gland, inorganic phosphate in the urine, focal necrosis of the kidney and alterations of muscle fibre size. Inorganic phosphates have not been shown to cause cancer, genetic damage or reproductive or developmental damage in animal tests. Barium compounds may cause high blood pressure, airway irritation and damage the liver, spleen and bone marrow. Prolonged exposure may cause a lung inflammation and scarring. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

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AutoTech	TOXICITY	IRRITATION
Decorative Flakes	Not Available	Not Available
	TOXICITY	IRRITATION
barium sulfate	dermal (rat) LD50: >2000 mg/kg [1]	Eye: no adverse effect observed (not irritating) [1]
Sunam sunate	Oral (Mouse) LD50; >3000 mg/kg [2]	Skin: no adverse effect observed (not irritating) [1]
	TOVIOTIV	VDDTTATTON
vinyl acetate homopolymer	TOXICITY Oral (Rat) LD50: >25000 mg/kg [2]	IRRITATION Not Available
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >4640 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) [1]
potassium tripolyphosphate	Inhalation (Rat) LC50: >0.39 mg/l4h [1]	Skin: no adverse effect observed (not irritating) [1]
	Oral (Rat) LD50: >2000 mg/kg[1]	
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg [1]	Eye: no adverse effect observed (not irritating) [1]
Engineer Chalk	Inhalation (Rat) LC50: >2.1 mg/l4h [1]	Skin (human): 0.3 mg/3d-I mild
	Oral (Rat) LD50: >5000 mg/kg[1]	Skin: no adverse effect observed (not irritating) [1]
	TOXICITY	IRRITATION
	dermal (hamster) LD50: >=10000 mg/kg [2]	Eye: no adverse effect observed (not irritating) [1]
titanium dioxide	Inhalation (Rat) LC50: >2.28 mg/l4h[1]	Skin (human): 0.3 mg/3D (int)-mild *
	Oral (Rat) LD50: >=2000 mg/kg[1]	Skin: no adverse effect observed (not irritating) [1]
	TOXICITY	IRRITATION
carbon black	Dermal (rabbit) LD50: >2000 mg/kg [1]	Eye: no adverse effect observed (not irritating) [1]
Carbon black	Oral (Rat) LD50: >2000 mg/kg[1]	Skin: no adverse effect observed (not irritating) [1]
VINYL ACETATE	Ames Test (with and without metbolic activaion): negative Genotoxic e	effects, cells of mammals, in vitro (without metabolic activation):
HOMOPOLYMER ENGINEER CHALK	negative The overuse of talc in nursing infants has resulted in respiratory damaged ath within hours of inhalation. Long-term exposure can also cause a variety of respiratory symptoms. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal test	
TITANIUM DIOXIDE	* IUCLID Laboratory (in vitro) and animal studies show, exposure to the materia of producing mutation. Exposure to titanium dioxide is via inhalation, swallowing or skin conta causing dysfunction of the lungs and immune system. Absorption by the penetrated only the outermost layer of the skin, suggesting that health genetic damage, though cases have been reported in experimental ani potential. The material may produce moderate eye irritation leading to inflamma conjunctivitis. The material may cause skin irritation after prolonged or repeated exp production of vesicles, scaling and thickening of the skin. Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported	he stomach and intestines depends on the size of the particle. It hy skin may be an effective barrier. There is no substantive data on imals. Studies have differing conclusions on its cancer-causing ation. Repeated or prolonged exposure to irritants may produce
CARBON BLACK		
AutoTech Decorative Flakes & BARIUMSULFATE & POTASSIUM TRIPOLYPHOSPHATE & ENGINEER CHALK & TITANIUM DIOXIDE & CARBON BLACK	No significant acute toxicological data identified in literature search.	
VINYL ACETATE HOMOPOLYMER & TITANIUM DIOXIDE & CARBON BLACK	WARNING: This substance has been classified by the IARC as Group 2	2B: Possibly Carcinogenic to Humans.
POTASSIUM TRIPOLYPHOSPHATE & ENGINEER CHALK & TITANIUM DIOXIDE	reactive airways dysfunction syndrome (RADS) which can occur afte RADS include the absence of previous airways disease in a non-atopic hours of a documented exposure to the irritant. Other criteria for diagr severe bronchial hyperreactivity on methacholine challenge testing, asthma) following an irritating inhalation is an infrequent disorder w substance. On the other hand, industrial bronchitis is a disorder that o	exposure to the material ends. This may be due to a non-allergic condition knowner exposure to high levels of highly irritating compound. Main criteria for diagnose individual, with sudden onset of persistent asthma-like symptoms within minute nosis of RADS include a reversible airflow pattern on lung function tests, moderat and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS with rates related to the concentration of and duration of exposure to the irritatioccurs as a result of exposure due to high concentrations of irritating substance (or order is characterized by difficulty breathing, cough and mucus production.

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Acute Toxicity	x	Carcinogenicity	x
Skin Irritation/Corrosion	✓	Reproductivity	✓
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	x	STOT - Repeated Exposure	×
Mutagenicity	✓	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification 🧼 – Data available to make classification

SECTION 12 Ecological information

AutoTech Decorative Flakes	Not Available	Test Duration (hr) Not Available	Species Not Available	Value Not Available	Source Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h 48h 96h 72h	Algae or other aquatic plants	>1.15mg/l	2222
barium sulfate	EC50		Crustacea 32mg/L		
Danum Sunate	LC50		Fish >3.5mg/l		
	NOEC(ECx)		Algae or other aquatic plants	>=1.15mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Source
vinyl acetate homopolymer	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h 96h 96h	Crustacea Algae or other	>70.7<101.3mg/l	222
otassium tripolyphosphate	EC50(ECx)		aquatic plants Algae or other	69.2mg/l	
	EC50		aquatic plants	69.2mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	LC50	96h	Fish Algae or other aquatic	89581.016mg/l	222
Engineer Chalk	NOEC(ECx)	720h	plants Algae or other aquatic	918.089mg/l	
	EC50	96h	plants	7202.7mg/l	
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1008h	Fish	<1.1-9.6	7
	EC50	72h	Algae or other aquatic plants	3.75- 7.58mg/l	4
titanium dioxide	EC50	48h	Crustacea	1.9mg/l	2
	LC50	96h	Fish	1.85- 3.06mg/l	4
	NOEC(ECx)	672h	Fish	>=0.004mg/L	2
	EC50	96h	Algae or other aquatic plants	179.05mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	>0.2mg/l	2
carbon black	EC50	48h	Crustacea	33.076- 41.968mg/l	4
	LC50	96h	Fish	>100mg/l	2
	NOEC(ECx)	24h	Crustacea	3200mg/l	1
Legend:	Ecotox databas		IA Registered Substances - Ecotoxicological Information quatic Hazard Assessment Data 6. NITE (Japan) - Bioco		А,

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For Inorganic Sulfate:

Environmental Fate - Sulfates can produce a laxative effect at concentrations of 1000 - 1200 mg/liter, but no increase in diarrhea, dehydration or weight loss. The presence of sulfate in drinking-water can also result in a noticeable taste. Sulfate may also contribute to the corrosion of distribution systems. No health-based guideline value for sulfate in

drinking water is proposed.

Atmospheric Fate: Sulfates are removed from the air by both dry and wet deposition processes. Wet deposition processes including rain-out (a process that occurs within the

clouds) and washout (removal by precipitation below the clouds) which contribute to the removal of sulfate from the atmosphere.

Terrestrial Fate: Soil - In soil, the inorganic sulfates can adsorb to soil particles or leach into surface water and groundwater. Plants - Sodium sulfate is not very toxic to terrestrial plants however; sulfates can be taken up by plants and be incorporated into the parenchyma of the plants. Some plants (e.g. corn and Kochia Scoparia) are capable of

accumulating sulfate to concentrations that are potentially toxic to ruminants. Jack pine are the most sensitive plant species.

Aquatic Fate: Sulfate in water can also be reduced by sulfate bacteria (Thiobacilli) which use them as a source of energy. In anaerobic environments sulfate is biologically reduced to (hydrogen) sulfide by sulfate reducing bacteria, or incorporated into living organisms as source of sulfur. Sodium sulfate is not reactive in aqueous solution at room temperature. Sodium sulfate will completely dissolve, ionize and distribute across the entire planetary "aquasphere". Some sulfates may eventually be deposited with the majority of sulfates participating in the sulfur cycle in which natural and industrial sodium sulfates are not distinguishable. Chemwatch: 42-4255 Page 10 of 12 Issue Date:10/03/202 Print Date: 3 Version No: 9.1

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Ecotoxicity: Significant bioconcentration or bioaccumulation is not expected. Algae are the most sensitive to sodium sulfate and toxicity occurs in bacteria from 2500mg/L. Sulfates are not acutely toxic to fish or invertebrates. Daphnia magna water fleas and fathead minnow appear to be the least sensitive species. Activated sludge showed a very low sensitivity to sodium sulfate. Overall it can be concluded that sodium sulfate has no acute adverse effect on aquatic and sediment dwelling organisms. No data were found for long term toxicity.

For Barium and its Compounds:

Environmental Fate: Barium is a highly reactive metal occurring naturally only in a combined state, primarily as inorganic complexes. Conditions such as pH, oxidation-reduction potential, cation exchange capacity, and the presence of sulfate, carbonate, and the presence of metal oxides will affect the partitioning of barium and its compounds in the environment. The element is released to environmental by both natural processes and man-made sources. Most barium released to the environment from industrial sources is in forms that do not become widely dispersed.

Atmospheric Fate: In the atmosphere, barium is likely to be present in particulate form. Barium compounds will be removed from the atmosphere via wet/dry deposition. The substance may change to different forms of barium in the air.

Terrestrial Fate: Soil - Barium will leach from geological formations to groundwater and will adsorb to soil. Barium is not very mobile in most soil systems and will form soluble complexes with fulvic/humic acids. Transportation rates of barium in soil are dependent on the characteristics of soil material. In soils with high positive ion exchange capacity, (e.g., fine textured mineral soils or soils with high organic matter content), barium mobility will be limited by adsorption. Soils high in calcium carbonate leave barium carbonate residues, which limit mobility. Barium produces barium sulfate residues in the presence of sulfates. Barium is more mobile, and is more likely to be leached, from soils in the presence of chloride and under acidic conditions. Barium binds with fatty acids, (e.g., in acidic landfill leachate), and will be much more mobile in soils containing fatty acids. Plants - Barium is not expected to concentrate in plants, relative to amounts found in soils; however, there are some plants, (beans, forage plants, Brazil nuts, and mushrooms), which accumulate barium.

Aquatic Fate: Barium will adsorb to sediment/suspended particulate matter. Precipitation of barium sulfate salts is accelerated where rivers enter the ocean. Sedimentation of suspended solids removes a large portion of the barium content from surface waters. Barium in sediments is found largely in the form of barium sulfate, (barite). Ecotoxicity: Barium concentration will increase as it moves up the food chain in both land and aquatic species. In aquatic media, barium is likely to precipitate out of solution as an insoluble salt, (i.e. barium sulfate/barium sulfite). The uptake of barium by fish and marine organisms is also an important removal mechanism. Barium may concentrate in marine plants by a factor of 400-4,000 times the level present in the water. The substance may concentrate in marine animals, plankton, and brown algae.

For Phosphate: The principal problems of phosphate contamination of the environment relates to eutrophication processes in lakes and ponds. Phosphorus is an essential plant nutrient and is usually the limiting nutrient for blue-green algae.

Aquatic Fate: Lakes overloaded with phosphates is the primary catalyst for the rapid growth of algae in surface waters. Planktonic algae cause turbidity and flotation films. Shore algae cause ugly muddying, films and damage to reeds. Decay of these algae causes oxygen depletion in the deep water and shallow water near the shore. The process is selfperpetuating because an anoxic condition at the sediment/water interface causes the release of more adsorbed phosphates from the sediment. The growth of algae produces undesirable effects on the treatment of water for drinking purposes, on fisheries, and on the use of lakes for recreational purposes. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
vinyl acetate homopolymer	LOW	LOW
titanium dioxide	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
vinyl acetate homopolymer	LOW (LogKOW = 0.7278)
titanium dioxide	LOW (BCF = 10)

Mobility in soil

Ingredient	Mobility
vinyl acetate homopolymer	LOW (Log KOC = 6.131)
titanium dioxide	LOW (Log KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Product / Packaging disposal

- Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the
- same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1.Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

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Product name	Group
barium sulfate	Not Available
vinyl acetate homopolymer	Not Available
potassium tripolyphosphate	Not Available
Engineer Chalk	Not Available
titanium dioxide	Not Available
carbon black	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
barium sulfate	Not Available
vinyl acetate homopolymer	Not Available
potassium tripolyphosphate	Not Available
Engineer Chalk	Not Available
titanium dioxide	Not Available
carbon black	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

barium sulfate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

vinyl acetate homopolymer is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

potassium tripolyphosphate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Engineer Chalk is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2A: Probably carcinogenic to humans

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International Agency fsor Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

titanium dioxide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International Agency fsor Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

carbon black is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International Agency fsor Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Additional Regulatory Information

Not Applicable

National Incomes of Chatron

National Inventory Status		
National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (barium sulfate; vinyl acetate homopolymer; potassium tripolyphosphate; Engineer Chalk; carbon black)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (vinyl acetate homopolymer)	
Japan - ENCS	No (Engineer Chalk)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	

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National Inventory	Status
Mexico - INSQ	Yes Yes Yes
Vietnam - NCI	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.
Russia - FBEPH	
Legend:	

SECTION 16 Other information

Revision Date	10/03/202		
Initial Date	3		
	05/08/201		
SDS Version Summary	4		
Version	Date of Update	Sections Updated	
8.1 9.1	20/08/2021	Classification change due to full database hazard calculation/update.	
	10/03/2023	Classification change due to full database hazard calculation/update.	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC—TWA: Permissible Concentration-Time Weighted Average
 PC—STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
 STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European Inventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
 KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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